

Item		Mechanical Properties										Thermal Properties				
		Tensile Strength		Elongation	Bending Strength		Flexural Modulus	Compressive Strength		IZOD Impact Strength	Rockwell Hardness	Operating Temperature	Deflection Temp. Under Load	Linear Expansion Coefficient	Thermal Conductivity	Specific Heat
		MPa	kgf/cm <sup>2</sup>		MPa	kgf/cm <sup>2</sup>		Yield Point								
Units		MPa	kgf/cm <sup>2</sup>	%	MPa	kgf/cm <sup>2</sup>	MPa	kgf/cm <sup>2</sup>	kJ/m <sup>2</sup>	—	°C	°C	°C <sup>-1</sup>	W/m·K	J/g·K	
PET	Standard	62	630	15	83	850	$2.4 \times 10^3$	—		10	59	-15~55	70	$6.8 \times 10^{-5}$	—	1.3
	Anti-Static	52	530	—	71	730	$2.0 \times 10^3$	60	610	—	46	—	69	$7.5 \times 10^{-5}$	—	1.35
PVC	Standard	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Anti-Static	63	640	50	98	1000	$3.4 \times 10^3$	83	850	2.9	—	-30~60	—	$7.0 \times 10^{-5}$	0.16	1.12
Acrylic	Standard	75	760	2~7	117	1200	$3.2 \times 10^3$	124	1270	2.7	100	-30~80	100	$7.0 \times 10^{-5}$	0.21	1.46
	Anti-Static	75	760	5	106	1080	$3.3 \times 10^3$	—		—	100	—	85	$5.9 \times 10^{-5}$	—	1.46
Polycarbonate	Standard	65	663	83	90	9.2	2300	78	7.95	15	67	—	135	$6.5 \times 10^{-5}$	0.24	1.3
	Anti-Static	65	663	83	90	9.2	2300	78	7.95	15	70	—	135	$5.2 \times 10^{-5}$	—	1.2
	Abrasion Resistant	65	663	83	93	9.5	2300	—		—	—	—	135	$6.5 \times 10^{-5}$	—	—
JIS Testing Method		K-7113		K-7113	K-7203		K-7203	K-7181		K-7110	—	—	K-7191	K-7140	—	—

Values shown above are for Reference Only.

\* PET and Polycarbonate Elongation values shown are a % of JIS K-7162-1B/50.

Item	Electrical Properties						Other										
	Surface Resistivity	Specific Volume Resistivity	Insulation Breakdown Voltage	Dielectric Constant	Dissipation Factor	Light Transmittance by Color				Specific Gravity	Water Absorption	Flame Resistance	Chemical Resistance				
						10 <sup>6</sup> Hz	10 <sup>6</sup> Hz	Clear	Brown Smoke				Orange	Gray Smoke	Oil	Acid	Alkali
Units	Ω	Ω·cm	kV/mm	—	—	%				—	%	—	—	—	—		
PET	Standard	>10 <sup>10</sup>	>10 <sup>11</sup>	—	3.2	—	87	28	—	—	1.27	—	—	Good	Poor	Poor~Acceptable	Poor
	Anti-Static	10 <sup>6</sup> ~10 <sup>8</sup>	>10 <sup>17</sup>	—	—	—	80	30	—	—	1.27	—	—	Good	Poor	Poor~Acceptable	Poor
PVC	Standard	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Anti-Static	10 <sup>7</sup> ~10 <sup>8</sup>	—	—	—	—	80	29	—	—	1.4	0.03	Self-Extinguishing	Good	Good	Good	Poor~Acceptable
Acrylic	Standard	>10 <sup>15</sup>	>10 <sup>15</sup>	20	3.2	0.06	93	25	—	—	1.2	0.4	Poor	Good	Good	Good	Poor~Acceptable
	Anti-Static	10 <sup>6</sup> ~10 <sup>8</sup>	>10 <sup>17</sup>	—	2.9	0.032	79	32	—	—	1.2	0.18	Poor	Good	Good	Good	Poor~Acceptable
Polycarbonate	Standard	>2.0×10 <sup>16</sup>	>10 <sup>17</sup>	20	3	0.009	90	35	—	33	1.2	0.24	Self-Extinguishing	Good	Acceptable	Poor	Poor
	Anti-Static	10 <sup>6</sup> ~10 <sup>8</sup>	>10 <sup>17</sup>	—	3	0.06	86	35	—	—	1.2	0.15	—	Poor	Poor	Poor	Poor
	Abrasion Resistant	>2.0×10 <sup>16</sup>	>10 <sup>17</sup>	20	3	—	91	—	—	—	1.2	—	—	Good	Acceptable	Poor	Poor
JIS Testing Method	K-6911	K-6911	K-6911	K-6911	K-6911	—	—	—	—	—	—	K-7209	—	—	—	—	—

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